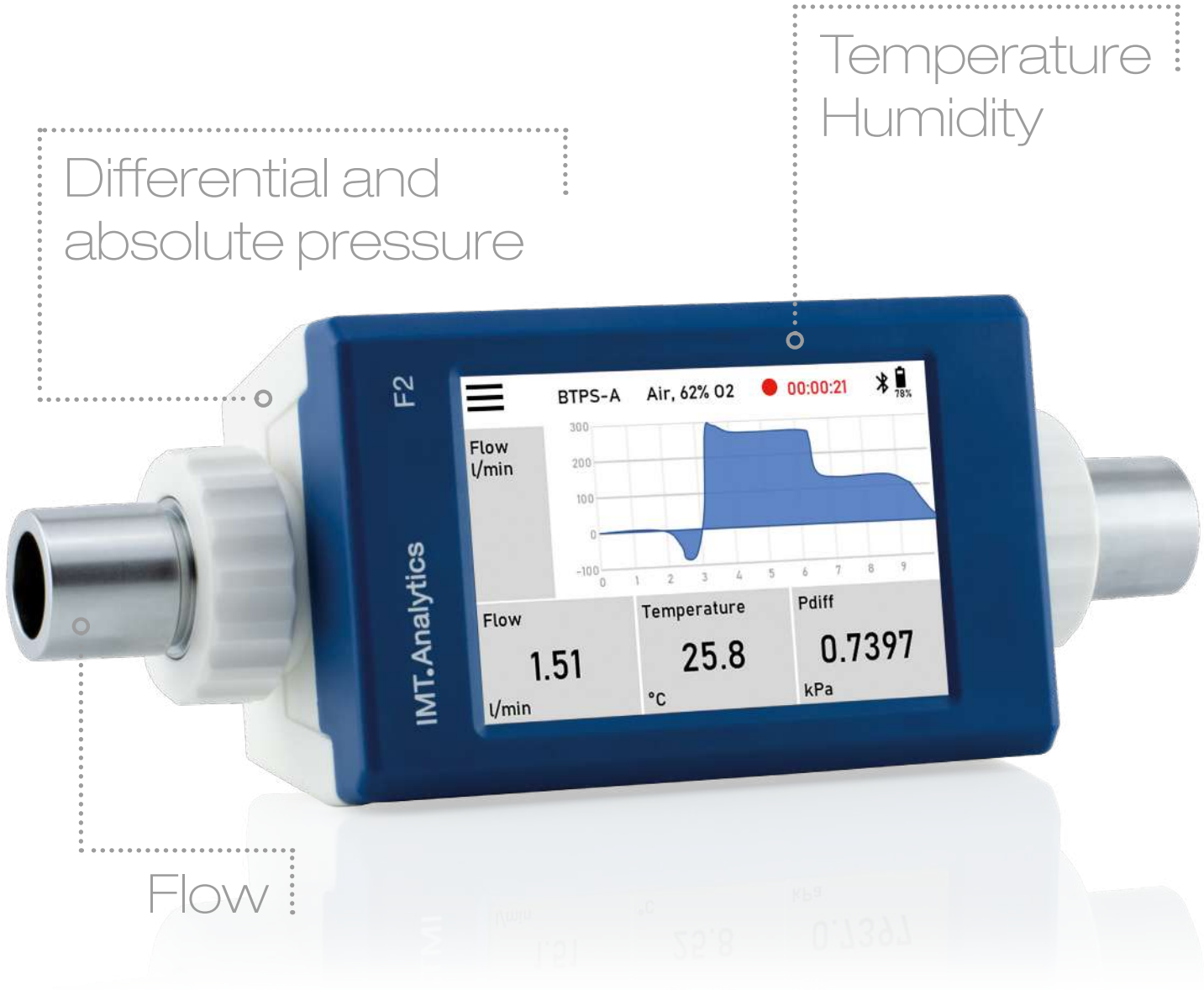
FlowMeter F2

Precise. Compact. Battery powered.

analyser
the art of measuring

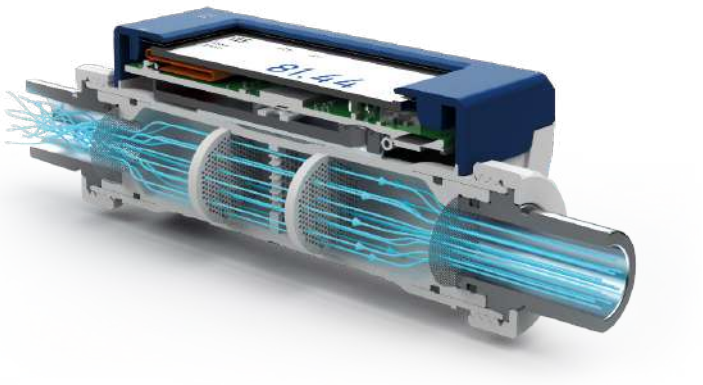
The FlowMeter F2 measures gas flow, volume, absolute pressure, differential pressure, temperature and humidity. Easy to use, battery powered, compact and versatile. It will ease your job in engineering, manufacturing and field service.



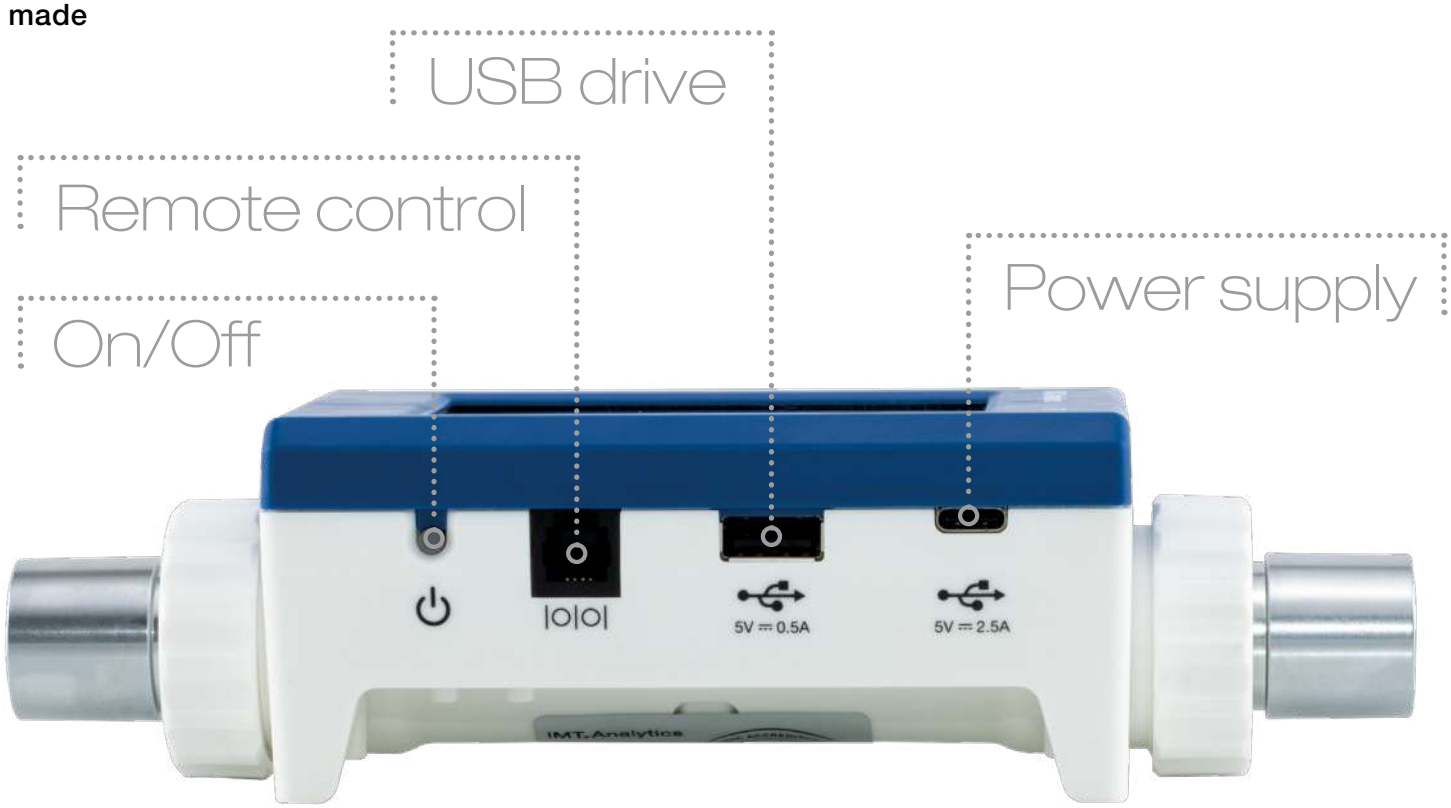
Features

- Flow measurement with 1.7 % accuracy
- Gas temperature and humidity
- Differential and absolute pressure
- Built-in battery
- Low resistance
- Easy to use
- Remote control interface

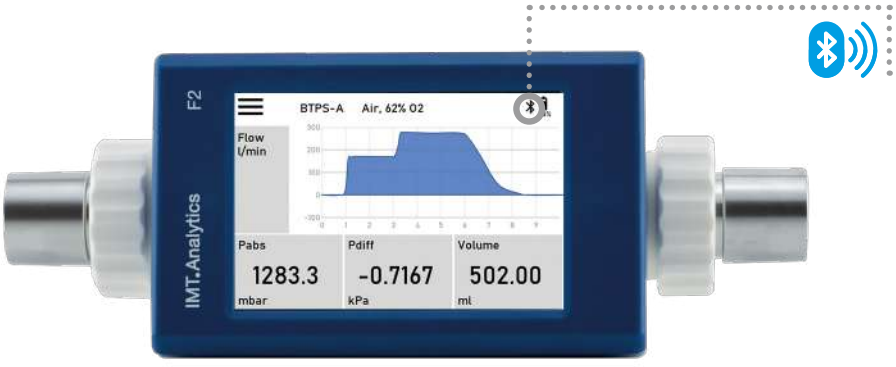
Precise flow measurement
Our new patented flow measuring system incorporates a multi-disc system flow channel. Multiple sensors guarantee a highly responsive and temperature and humidity compensated flow measurement.



swiss made



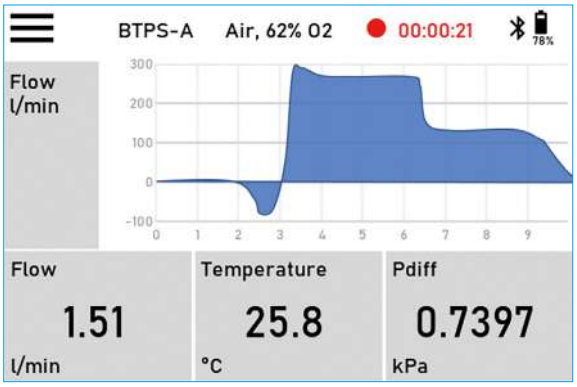
App for iOS and Android
Analyse data with your mobile device. The FlowMeter App offers high resolution real-time charts, advanced data snapshot and more.



Easy to Use
The FlowMeter offers a beautiful, high resolution single-touch user interface that is configurable. View real-time charts, numerical values and statistics. Change the unit of measure, gas standard and gas type quickly and easily.

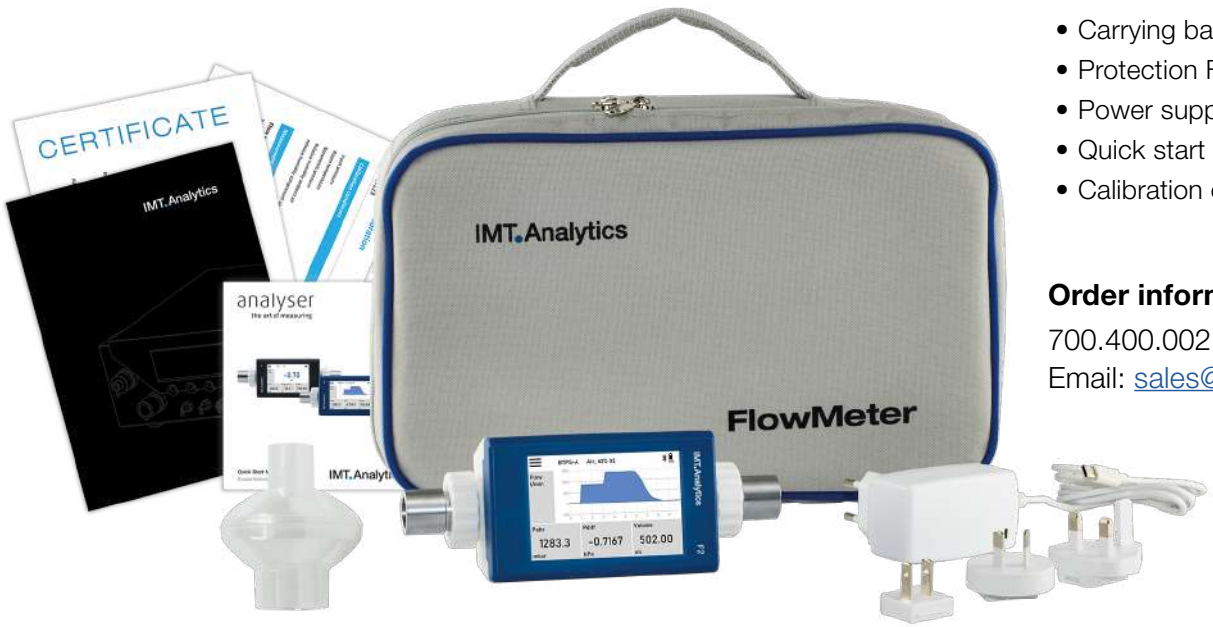
Recording and data snapshot
Record data for up to 100 hours with a resolution of 1 ms and export it as a csv file. Data snapshot is stored as a bitmap (bmp) file.

Battery powered
Use FlowMeter independently all day long. The internal rechargeable battery allows convenient, untethered measuring on the go.



Differential pressure

ISO 17025



FlowMeter F2 test set
The FlowMeter set contains

- FlowMeter F2
- Carrying bag
- Protection Filter RT019
- Power supply
- Quick start guide
- Calibration certificate

Order information
700.400.002 FlowMeter F2 test set
Email: sales@imtanalytics.com

Technical specifications FlowMeter F2

Measurements		Range	Accuracy
Flow	Measuring direction	Bidirectional	
	Temperature compensation	Automatic	
	Pressure compensation	Automatic	
	Humidity compensation	Automatic	
	Flow	± 300 L/min	± 1.7 % or ± 0.05 L/min
Volume	in flow channel	0–500 000 L	± 4 % or ± 1 mL
Pressure	Differential Pressure (P_{diff})	± 250 mbar	± 0.5 % or ± 0.15 mbar
	Absolute pressure in flow channel (P_{abs})	0.5–2 bar	± 10 mbar
Temperature	in flow channel	-10–50 °C	± 1 °C
Humidity	in flow channel	0–100 % RH	± 3 % RH (20 %–80 % RH)
			± 5 % RH (< 20 %, > 80 % RH)

Additional information		Range	Accuracy
Gas types		Air, Air/O_2, N_2	
Gas standards		ATP, STP, BTPS-A, CTP (Channel temperature pressure)	
Units	Flow	L/min, ft^3/min (cfm/min)	
	Volume	L, mL, ft^3 (cfm)	
	Pressure	mbar, cmH_2O, inH_2O, hPa, kPa, Pa, mmHg, PSI	
	Temperature	°C, °F, K	
Resistance	in flow channel	< 20 mbar @ 200 L/min	< 40 mbar @ 300 L/min
Response Time	Flow	4 ms to 63 % of full scale	

General information	
Power supply	5 V, max 2.5 A, supplied through USB-C
Power consumption	Typical 0.5 W, max. 1 W Battery charging: up to 12.5 W
Battery operation	Typical 10 hours
Weight	350 gram
Dimensions (w × d × h)	20 × 8 × 6 cm
Data storage	USB stick
Display	High resolution touch-screen display 3.5" (480 × 320 px)
Interfaces	USB-A for USB stick, USB-C for power, RJ-10 for remote control
Calibration	Annually
Operating temperature	5–40 °C (50–104 °F)
Operating humidity	10–90 % RH non-condensing
Approvals	CE, UKCA, CSA (North America), FCC, IC, IEC 61010-1:2010/AMD1:2016, IEC 61326-1:2020

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